

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#12
1/25
5-10-00
A Can

Applicants: Kenneth J. McClellan

Serial No.: (S-89,691) : Examiner

Filed : : Art Unit:

For : : SINGLE CRYSTAL SCINTILLATOR

Assistant Commissioner for Patents
Washington, DC 20231



INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR 1.56, 1.97, AND 1.98

Sir:

The documents listed below, copies attached, may be material to the examination of the subject application and are therefore submitted in compliance with the duty of disclosure defined in 37 CFR 1.56.

1. Kazumasa Takagi et al., "Gamma Ray Detector," U.S. Patent 4,647,781, issued March 3, 1987.
2. Charles L. Melcher, "Lutetium Orthosilicate Single Crystal Scintillator Detector," U.S. Patent 4,958,080, issued September 18, 1990.
3. Charles L. Melcher, "Lutetium Orthosilicate Single Crystal Scintillator Detector," U.S. Patent 5,025,151, issued June 18, 1991.
4. Seikichi Akiyama et al., "Single Crystal Scintillator," U.S. Patent 5,264,154, issued November 23, 1993.
5. Ralph A. Manente et al., "Method of Growing Lutetium Oxyorthosilicate Crystals," U.S. Patent 5,660,627, issued August 26, 1997.
6. C.D. Brandle, A.J. Valentino, and G.W. Berkstresser, "Czochralski Growth of Rare-Earth Orthosilicates (Ln_2SiO_5)," J. Crystal Growth, Vol. 79, (1986), pp. 308-315.

7. C.L. Melcher, R.A. Manente, C.A. Peterson, and J.S. Schweitzer, "Czochralski Growth of Rare-Earth Orthosilicates," *J. Crystal Growth*, Vol. 128, (1993), pp. 1001-1005.

8. G.B. Loutts, A.I. Zagumennyi, S.V. Lavrishchev, Yu.D. Zavartsev, and P.A. Studenikin, "Czochralski Growth and Characterization of $(Lu_{1-x}Gd_x)_2SiO_5$ Single Crystals for Scintillators," *J. Crystal Growth*, Vol. 174, (1996), pp. 331-336.

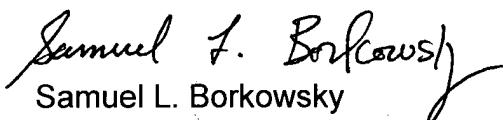
9. Piotr A. Rodnyi, "Physical Processes in Inorganic Scintillators," CRC Press, NY, (1997), p. 50.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional matter material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art under 35 U.S.C. 102.

It is requested that the above citations be made of record in the prosecution of this application.

Dated: June 4, 1999

Respectfully submitted,



Samuel L. Borkowsky
Agent for Applicants
Registration No. 42,346
Phone (505) 665-3111